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MAGNETIC POLYMER PARTICLE AND MANUFACTURE THEREOF

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Abstract of JP2000306718

PROBLEM TO BE SOLVED: To provide magnetic polymer particles, which have high magnetic separation, redispersibility after conducting a magnetic history, and large surface area and practical performance, and its manufacture.

SOLUTION: The magnetic polymer particles has the residual magnetization intensity which is 10 to 35% of saturation magnetization intensity and a 0.2 to 4 μm mean particle size. For the manufacture of the magnetic polymer particles, a monomer composition formed by dispersing magnetic bodies, whose residual magnetization intensity is 10 to 35% of the saturation magnetization intensity in a polymerizing monomer, is dispersed in water-based medium to prepare a monomer dispersion liquid, and the polymerizing monomer is polymerized. Furthermore, magnetic-body dispersed liquid is prepared by dispersing magnetic bodies in an organic solvent, whose solution parameter is 6.6 to 8.7 and after a part or all the polymerizing monomer is added to the magnetic-body dispersed liquid, the organic solvent is removed from the magnetic-body dispersed liquid to preferably prepare a monomer composition.

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